

FSA9280A / FSA9288A

USB Port Multimedia Switch Featuring Automatic Select and Accessory Detection

Features

Signals	Audio, USB, UART, USB Charging
Switch Mechanism	Automatic Switching with Available Interrupt
Accessory Detection	Headsets (Headphone/MIC/Remote) USB Data Port UART Serial Link USB Chargers (Car-Kit, CDP, DCP) Factory-Mode TTY Converter
USB	FS and HS 2.0 Compliant
USB Charging	Battery Charging 1.1 Compliant Integrated Power FET Over-Voltage Protection (OVP) 28V Over-Current Protection (OCP) 1.5A FSA9280A – 6.8V OVP FSA9288A – 8.0V OVP
Audio	Left, Right, MIC, TTY
V_{BAT}	3 to 4.4V
Programmability	I ² C™
ESD	15kV IEC 61000-4-2 Air Gap
Package	20-Lead UMLP (3 x 4 x 0.55mm, 0.5mm pitch)
Ordering Information	FSA9280AUMX FSA9288AUMX

Description

The FSA9280A and FSA9288A are high-performance multimedia switches featuring automatic switching and accessory detection for the USB port. These switches allow the sharing of a common USB port to pass audio, USB data / charging, as well as factory programmability. In addition, the FSA9280A / FSA9288A integrate detection of accessories, such as headphones, headsets (MIC / button), car chargers, USB chargers, and UART data cables with the ability to use a common USB connector. The FSA9280A / FSA9288A can be programmed for manual switching or automatic switching of data paths based on accessory detected. FSA9280A / FSA9288A include an integrated 28V over-voltage and 1.5A over-current protected FET.

Applications

- Mobile Phones & Portable Media Players

Related Resources

- FSA9280A / FSA9288A Evaluation Board
- FEB - Evaluation Board Users Guide
- For samples, questions or board requests; please contact analogswitch@fairchildsemi.com

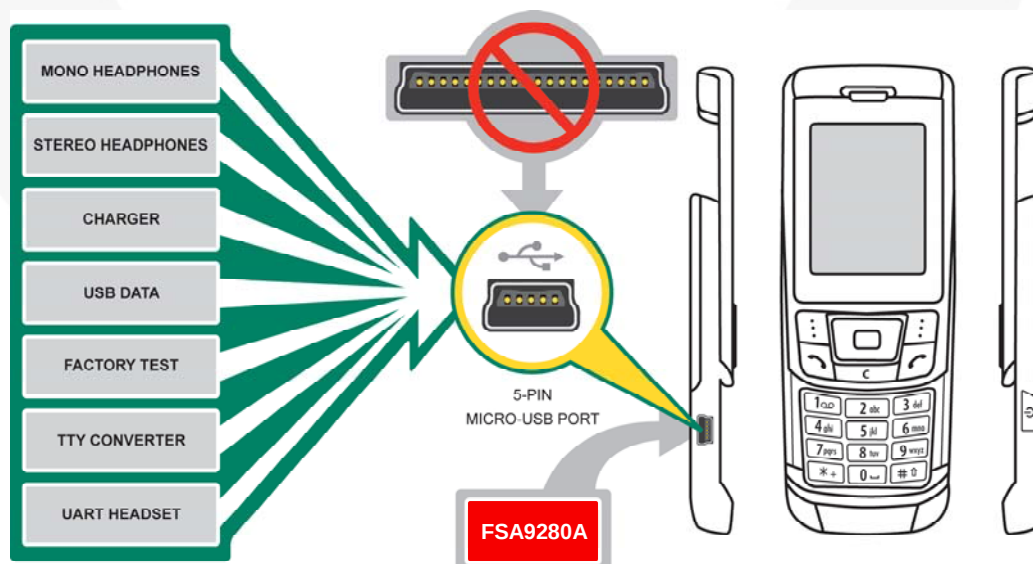


Figure 1. Typical Application

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Block Diagram

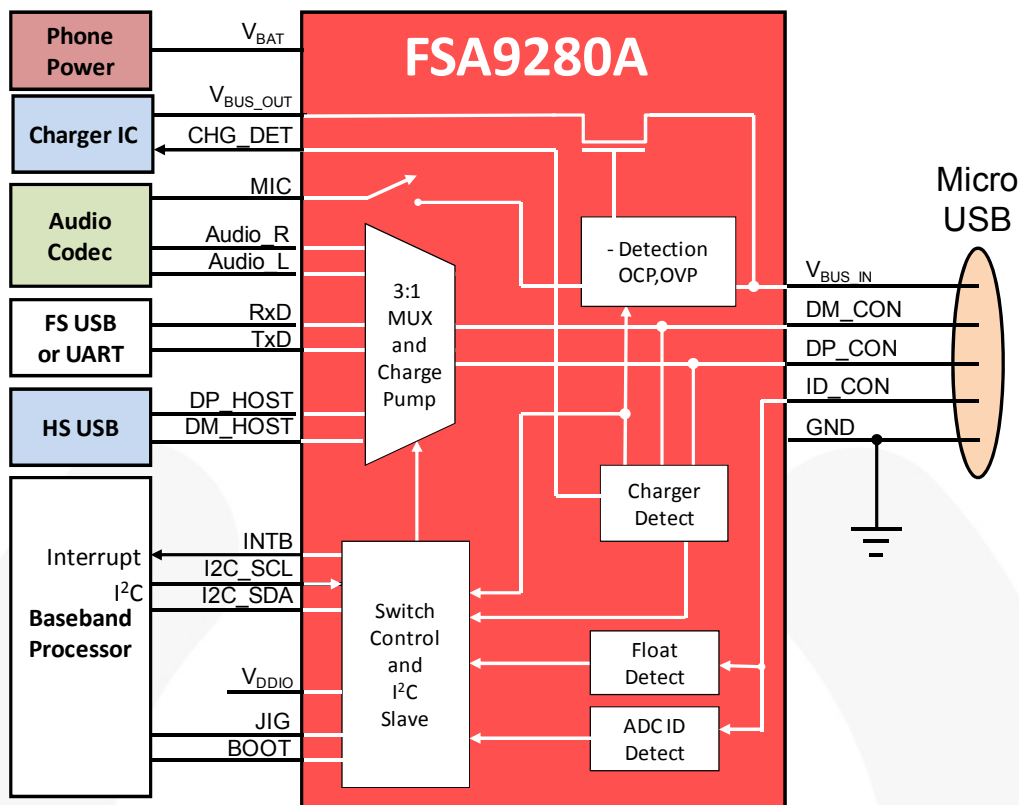


Figure 2. Block Diagram

Pin Configuration

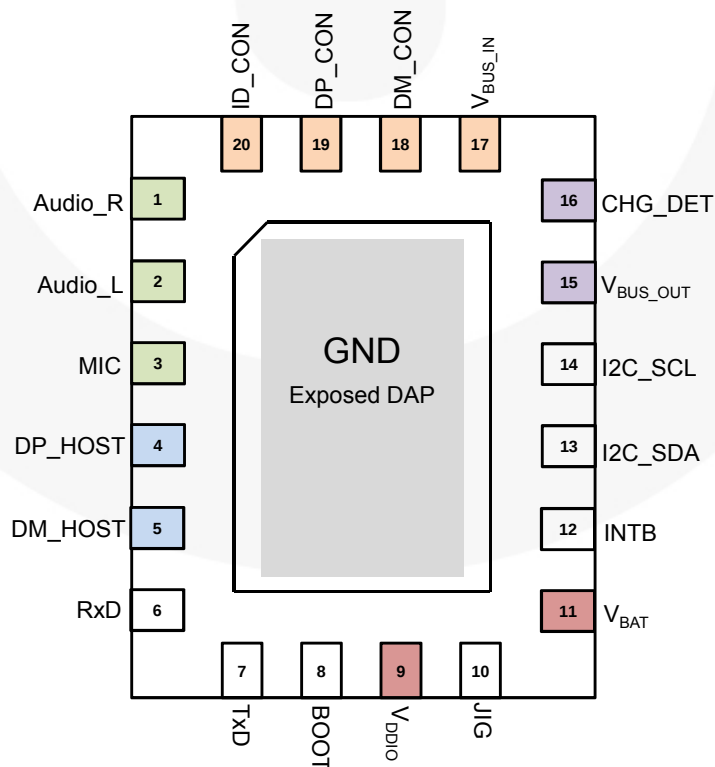


Figure 3. Pin Assignments (Top View)

Physical Dimensions

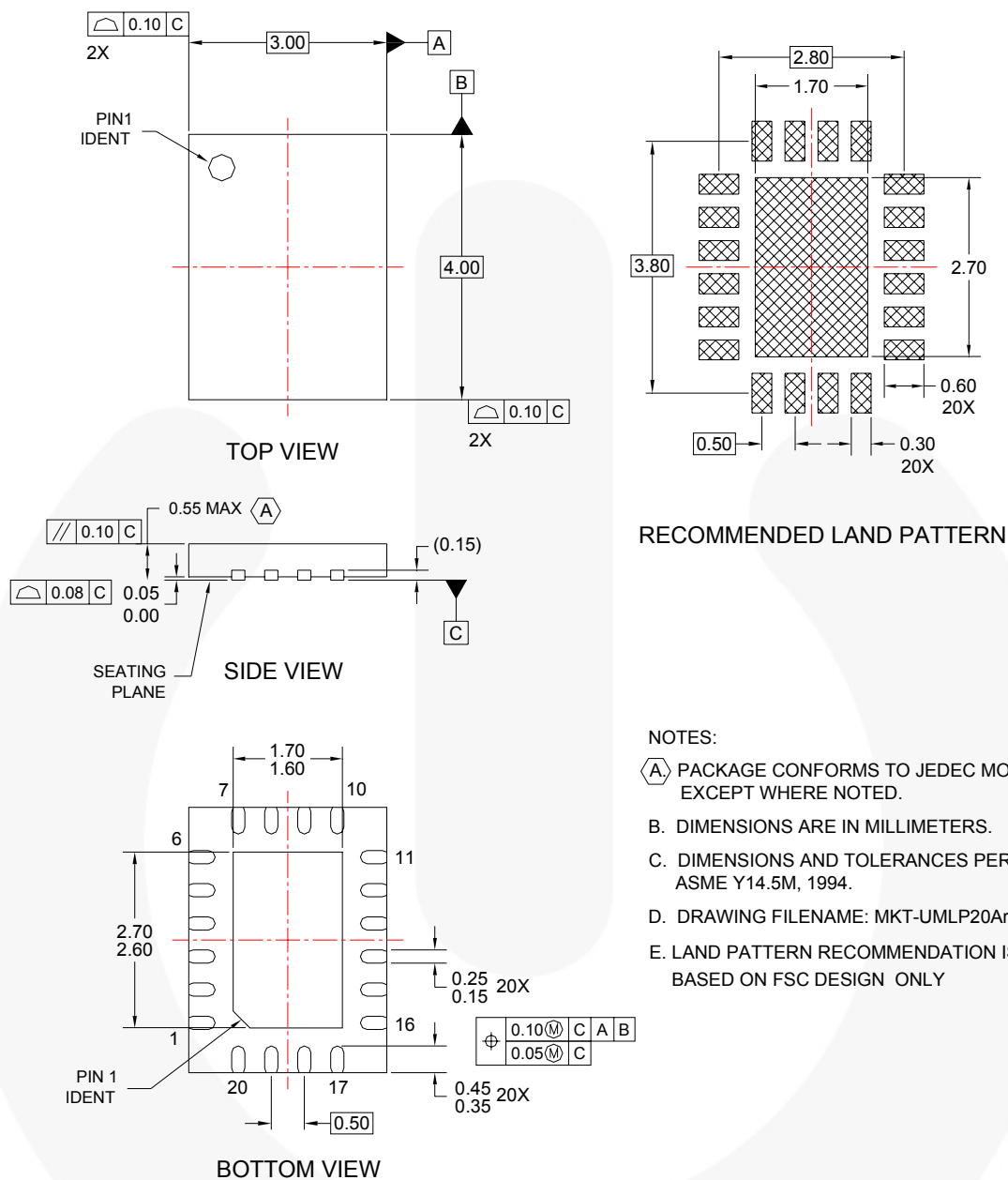


Figure 28. 20-Lead Ultrathin Molded Leadless Package (UMLP), 3 x 4 x 0.55mm, 0.5mm Pitch

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Part Number	Operating Temperature Range	Top Mark	Package
FSA9280AUMX	-40 to +85°C	9280A	20-Lead Ultrathin Molded Leadless Package (UMLP), 3 x 4 x 0.55mm, 0.5 Pitch
FSA9288AUMX	-40 to +85°C	9288A	20-Lead Ultrathin Molded Leadless Package (UMLP), 3 x 4 x 0.55mm, 0.5 Pitch



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